

Application No.: 10/698,820

Art Unit: 2191

Docket No.: MWS-062RCE

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AMENDMENTS TO THE CLAIMS

1. (currently amended) In an electronic device having a graphical modeling and execution environment, said graphical modeling and execution environment including at least one graphical model, a method comprising the steps of:

providing a user interface with a plurality of selectable parameters for a custom storage class, said custom storage class specifying the manner in which an automatic code generator creates source code that implements functionality of said graphical model, including source code corresponding to data referenced by said graphical model in said graphical modeling and execution environment; and

creating a custom storage class in said graphical modeling and execution environment utilizing parameters selected by a user from said plurality of selectable parameters.

2. (previously presented) The method of claim 1, comprising the further step of:

providing a view of salient aspects of the source code generated by said automatic code generator utilizing the user-selected parameters.

3. (previously presented) The method of claim 2, comprising the further steps of:

changing the user—selected parameters for said custom storage class in said user interface; and

adjusting the source code generated by said automatic code generator to reflect the change in user—selected parameters.

4. (previously presented) The method of claim 3, comprising the further step of:

displaying salient aspects of the adjusted source code in said view of salient aspects of the source code.

5. (previously presented) The method of claim 2, wherein said view of salient aspects of the source code automatically generated includes at least one token, said token being symbolically representative of a non-displayed segment of source code.

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6. (previously presented) The method of claim 1, wherein said custom storage class declares macros for instances of constant data.

7. (previously presented) The method of claim 1, wherein said custom storage class declares variables for instances of constant data.

8. (previously presented) The method of claim 1, wherein said user-selected parameters control at least one of the manner in which automatically generated source code is defined, declared, accessed and addressed.

9. (previously presented) The method of claim 1, wherein said user-selected parameter includes a non-portable directive to a compiler.

10. (previously presented) The method of claim 9, wherein said non-portable directive to a compiler assigns data to at least one memory location in said electronic device.

11. (original) The method of claim 1, comprising the further step of:
creating a separate header file with said automatic code generator in response to the selection of one of said plurality of user-selected parameters.

12. (currently amended) An electronic device having a modeling and execution environment with at least one graphical model, said electronic device comprising:

a display device for:

displaying a user interface with a plurality of selectable parameters for a custom storage class, said custom storage class specifying the manner in which an automatic code generator creates source code that implements functionality of ~~from~~ said graphical model;

displaying a view of salient aspects of the source code generated by said automatic code generator utilizing the user-selected parameters; and

a processor for creating a custom storage class in said graphical modeling and execution environment, said custom storage class created utilizing parameters selected by a user from said plurality of selectable parameters[[: and]]

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~~a view of salient aspects of the source code generated by said automatic code generator utilizing the user-selected parameters.~~

13. (previously presented) The electronic device of claim 12, wherein the user-selected parameters for said custom storage class in said user interface are changed and the source code generated by said automatic code generator is adjusted to reflect the change in user-selected parameters.

14. (previously presented) The electronic device of claim 13, wherein the adjusted source code is displayed in said view of salient aspects of the source code.

15. (previously presented) The electronic device of claim 12, wherein said view of salient aspects of the source code includes at least one token, said token being symbolically representative of a non-displayed segment of code.

16. (currently amended) A computer-readable medium for use in an electronic device having a graphical modeling and execution environment, said graphical modeling and execution environment including at least one graphical model, said computer-readable medium holding storing computer-executable instructions for:

providing a user interface with a plurality of selectable parameters for a custom storage class, said custom storage class specifying the manner in which an automatic code generator creates source code that implements functionality of said graphical model, including source code corresponding to data referenced by said graphical model in said graphical modeling and execution environment; and

creating a custom storage class in said graphical modeling and execution environment utilizing parameters selected by a user from said plurality of selectable parameters.

17. (currently amended) The computer-readable medium of claim 16, wherein said method comprises the further step of:

providing a view of salient aspects of the source code generated by said automatic code generator utilizing the user-selected parameters.

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18. (currently amended) The computer-readable medium of claim 17, wherein said method comprises the further steps of:

changing the user—selected parameters for said custom storage class in said user interface; and

adjusting the source code generated by said automatic code generator to reflect the change in user—selected parameters.

19. (currently amended) The computer-readable medium of claim 18, wherein said method comprises the further step of:

displaying the adjusted source code in said view of salient aspects of the source code.

20. (currently amended) The computer-readable medium of claim 17, wherein said view of salient aspects of the source code automatically generated includes at least one token, said token being symbolically representative of a non-displayed segment of source code.

21. (currently amended) The computer-readable medium of claim 16, wherein said custom storage class declares macros for instances of constant data.

22. (currently amended) The computer-readable medium of claim 16, wherein said custom storage class declares variables for instances of constant data.

23. (currently amended) The computer-readable medium of claim 16, wherein said user-selected parameters control at least one of the manner in which automatically generated source code is defined, declared, accessed and addressed.

24. (currently amended) The computer-readable medium of claim 16, wherein said user-selected parameter includes a non-portable directive to a compiler.

25. (currently amended) The computer-readable medium of claim 24, wherein said non-portable directive to a compiler assigns data to at least one memory location in said electronic device.

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26. (currently amended) The computer-readable medium of claim 16, wherein said method comprises the further step of:

creating a separate header file with said automatic code generator in response to the selection of one of said plurality of user-selected parameters.